

Receiving Report

Date: 11/9/15

Batch No: M118900

Supplier: THYSSSEN/1R-PP

Dart P/O: 14519

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☒
 Work Order 11/05/15

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 11/9/15
 Date
 Received/Costing
 Initial

Location

RECEIVED NOV 24 2011

I N V O I C E

Sold By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

No: PEC IV-577353
 Date:14Sep11
 Due:14Oct11
 Remit to:
 THYSSENKRUPP MATERIALS NA
 c/o T27540
 P.O. BOX 4275, POSTAL STATION 'A'
 TORONTO, ONTARIO M5W 5V8

Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Shipped To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

=====

Shp Dt 14Sep11	Ord Dt 08Sep11	SO No ST-367092 B/L PEC 728972
Trm NET 30 DAYS/NET 30 JOURS	PO/Rel 14519	
Frt COLLECT	Via FEDERAL EXPRESS	FOB CONCORD
Slp STAN IVERS (905-532-1350)		Pbl 876352087151

=====

1 STAINLESS STEEL FLAT BAR 304-L HRAP	1 PCS	8 ' 2.0000 "	
.625" X 3.00" X 98.0000"			50 LBS
MATERIAL	8 ' 2.0000 " @	24.1506 FT	197.23 <i>CL</i>

=====

Interest will be charged at 1.5% per month or
 18% per year on overdue accounts.

*** SALES DEPT. OFFICE HOURS ***
 7:30 AM TO 5:00 PM - MONDAY TO FRIDAY
 **** TEL. 800-926-2600 ****
 *** CUSTOMER PICK-UP HOURS ***
 *** 9:00 AM TO 4:00 PM ***
 ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

 * WE STOCK STAINLESS STEEL!!!! *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

TPS/GST TVH/HST 140223934 RT0001
 # TVQ - QST 1017327981 TQ0001

Material	Processing	Freight	Other	Taxes	TOTAL DUE
197.23				25.64	222.87
Taxes: ONHSTS					25.64

Page: 1 Last

ENTERED NOV 29 2011

Wt. PAID
 DEC 01 2011
 0774

Purchase Order Receipt Listing

Thursday, September 15, 2011 12:31:25 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO14519 Receipt Dates from 9/15/2011 to 9/15/2011 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name			VC-COP001	Thyssenkrupp Materials CA Ltd								
PO14519	9			M304B0.625X3.000 f		7/22/2011	9/15/2011	8.1660		0.0000	0	\$188.06
CAD	No			304 BAR .625 X 3.00 f		8.0000	DESJ02			0.0000	0	
				118900								
									24,1506			
									\$23.03			
									\$188.06			
												</

B I L L O F L A D I N G

No: PEC 728972

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 14Sep11 at 11:35 From PFW
 Probill 876352087151
 Via FEDERAL EXPRESS
 FOB CONCORD
 Frt COLLECT
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-367092- 1 Your PO # 14519
 STAINLESS STEEL FLAT BAR 304-L HRAP.
 .625" X 3.00" X 98.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
560832	232232	8 ' 2.0000 "	1	50

TOTAL:	Tags	PCS	LBS
	1	1	50

ADD ON TO BACK ORDER 352182 SUR-CHARGE PAID

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

SHIP VIA FEDEX P1 ACCT# 15179324-0
 TOTAL 1 BAR G.W 50 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

RECU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

B I L L O F L A D I N G

No: PEC 728972

Ship From:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 9057389033

Ship Date 14Sep11 at 11:35 From PFW

Probill 876352087151

Via FEDERAL EXPRESS

FOB CONCORD

Frt COLLECT

Route 0- 0 Manifest

Vhcle Trailer

Slp STAN IVERS (905-532-1350)

Sold To: (20115)

DART AEROSPACE

Ship To: (1)

DART AEROSPACE

B I L L O F L A D I N G

ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632-9577

OUTSTANDING PO REPRINT

Purchase Order IDPO14519

Purchase Order Date 7/19/2011

PO Print Date 7/22/2011

Page Number 1 of 3

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty	Unit Price	Extended Price
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Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M303H0.625	HEX BAR .625	7/22/2011 Yes	12.00 f	Yours ppd	\$9.1700	\$110.04

Special Inst: MATERIAL: AISI 303 SS HEX BAR AS
PER ASTM A582
NOTE: AISI 304/316 NOT
ACCEPTABLE

Line Total: \$110.04

4	M2024T3S.032	2024-T3 .032 sheet	7/22/2011 Yes	96.00 sf	Yours ppd	\$3.0938	\$297.00
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Special Inst: MATERIAL: 2024-T3 ALUMONUM
SHEET AS PER
QQ-A-250/4 OR AMS-QQ-A-250/4 OR

Line Total: \$297.00

REFERENCE ONLY

7/22/2011

MATERIAL CERTIFICATION
REQD UPON DELIVERY

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577

OUTSTANDING PO REPRINT

Purchase Order IDPO14519

Purchase Order Date 7/19/2011

PO Print Date 7/22/2011

Page Number 2 of 3

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Requisition Nbr	
Vendor Fax	905 738 9033	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	Destination-Collect

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty	Unit Price	Extended Price
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AMS 4037
OR ASTM B209

7	M304S16GA	304/316 Sheet .063	7/22/2011 Yes	96.00 sf	Yours ppd \$6.6094	\$634.50
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Special Inst: MATERIAL AS ABOVE

Line Total: \$634.50

8	M304B0.375X03.000	M304 SS bar .375 x 3.00	7/22/2011 Yes	12.00 f	Yours ppd \$15.2100	\$182.52
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Special Inst: MATERIAL: AISI 304/316 SS BAR OR
AISI 304/316
SS PLATE AS PER ASTM A276 OR
ASTM A240
NOTE: AISI 303 NOT ACCEPTABLE

Line Total: \$182.52

9	M304B0.625X3.000	304 BAR .625 X 3.00	7/22/2011 Yes	12.00 f	Yours ppd \$23.0300	\$276.36
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MATERIAL CERTIFICATION
REQD UPON DELIVERY

7/22/2011

Dart Aerospace Ltd.
1270 Aberdeen Street
Lawkesbury, ON K6A 1K7
Tel: 613 632 9577

OUTSTANDING PO REPRINT

Purchase Order IDPO14519

Purchase Order Date 7/19/2011

PO Print Date 7/22/2011

Page Number 3 of 3

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty	Unit Price	Extended Price
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Special Inst: MATERIAL AS ABOVE

Line Total:

\$276.36

16	M6061T6S.100	6061-T6 .100 Sheet	7/22/2011 Yes	96.00 sf	Yours ppd	\$4.4959	\$431.61
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Special Inst: MATERIAL: 6061-T6 / T62
ALUMINUM SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11 OR
AMS 4025/AMS 4027 OR ASTM B209

Line Total:

\$431.61

Outstanding PO Total:

\$1,932.03

MATERIAL CERTIFICATION
REQD UPON DELIVERY

Change Nbr: 4

Change Date: 7/22/2011

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

04-113727

BÖLLINGHAUS STEEL Böllinghaus Portugal Aços Especiais, SA DIN EN ISO 9001:2000 TÜV CERT No. 01 100 030458	Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1		No.: / Nr.: / Nr.: 0000051207																															
	Unsere innere Verweisung / Our internal Ref / Ref Int 5600306719 300020		Datum / Date / Data 10.07.2007																															
Normen / Standards / Normas T304/L, tolerances acc. to ASTM A484-05a, specifications acc. to latest rev.: AMS 5639 Rev. H, QQS 763 Cond A, <u>ASTM A 276-04a</u> , ASTM A479/A479M-04, ASME SA 479-E01, AMS 5647 Rev. H, AMS QQS 763F																																		
Kunde / Customer / Cliente Roda Specialty Steel, Inc. 432 Diens Drive 60090 Wheeling IL																																		
Endgültiger Kunde / Final Customer / Cliente Final Roda Specialty Steel 1640 New Market Ave, Building 4 07080 S.Plainfield NJ																																		
Bestell Nr./Order Nr./ Enc.Nr. 450120		Bestell Nr./ Order Nr./ Enc.Nr. 450120.08																																
Prüfgegenstand / Product / Produto AISI 304/304L FLAT 3 x 5/8"		Gewicht / Weight / Peso 2,482 lb		Bunde / Bundle / Alados 02																														
Werkstoff-Nr. Material-no. Qualidade 1.4307		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9																																
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, solution annealed. US DFAR 252,225-7014: MELT SOURCE: United Kingdom / MFG: Portugal.																																		
Schmelzen-Nr. Cast nr./Fusão nr. 560832																																		
Chemische Analyse in % / Chemical composition in % / Análise química em % <table border="1"> <tr> <td>C:</td> <td>0.022</td> <td>Si:</td> <td>0.250</td> <td>Mn:</td> <td>1.830</td> <td>P:</td> <td>0.028</td> <td>S:</td> <td>0.027</td> <td>Cr:</td> <td>18.350</td> <td>Ni:</td> <td>8.120</td> </tr> <tr> <td>Mo:</td> <td>0.380</td> <td>Co:</td> <td>0.146</td> <td>Cu:</td> <td>0.484</td> <td>N:</td> <td>0.085</td> <td>Ti:</td> <td>0.005</td> <td>W:</td> <td>-</td> <td>V:</td> <td>-</td> </tr> </table>					C:	0.022	Si:	0.250	Mn:	1.830	P:	0.028	S:	0.027	Cr:	18.350	Ni:	8.120	Mo:	0.380	Co:	0.146	Cu:	0.484	N:	0.085	Ti:	0.005	W:	-	V:	-		
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ASTM A370																																		
Proben Nr. Test no. Amostra no.		<table border="1"> <tr> <th>ASTM E399 Kerbschlagarbeit Impact Test Resiliência {Charpy V}</th> <th>Streckgrenze Yield point Tensão limite Rp 0,2 %</th> <th>Dehngrenze 1% point Limite de extensão Rp 1,0%</th> <th>Zugfestigkeit Tensile strength Tensão de ruptura Rm</th> <th>Dehnung Elongation Alongamento A (A50-50mm)</th> <th>Einschnürung Reduction of area Coef. Estricção Z (A50-50mm)</th> </tr> <tr> <th>[J]</th> <th>[Ksi]</th> <th>[Ksi]</th> <th>[Ksi]</th> <th>[%]</th> <th>[%]</th> </tr> <tr> <td>3010845.01.01</td> <td>50.3</td> <td>55.0</td> <td>93.8</td> <td>52.5</td> <td>72.4</td> </tr> <tr> <td>3010845.01.02</td> <td>50.0</td> <td>54.4</td> <td>93.3</td> <td>52.8</td> <td>72.9</td> </tr> <tr> <td>3010845.01.03</td> <td>49.6</td> <td>53.7</td> <td>92.8</td> <td>53.1</td> <td>73.5</td> </tr> </table>			ASTM E399 Kerbschlagarbeit Impact Test Resiliência {Charpy V}	Streckgrenze Yield point Tensão limite Rp 0,2 %	Dehngrenze 1% point Limite de extensão Rp 1,0%	Zugfestigkeit Tensile strength Tensão de ruptura Rm	Dehnung Elongation Alongamento A (A50-50mm)	Einschnürung Reduction of area Coef. Estricção Z (A50-50mm)	[J]	[Ksi]	[Ksi]	[Ksi]	[%]	[%]	3010845.01.01	50.3	55.0	93.8	52.5	72.4	3010845.01.02	50.0	54.4	93.3	52.8	72.9	3010845.01.03	49.6	53.7	92.8	53.1	73.5
ASTM E399 Kerbschlagarbeit Impact Test Resiliência {Charpy V}	Streckgrenze Yield point Tensão limite Rp 0,2 %	Dehngrenze 1% point Limite de extensão Rp 1,0%	Zugfestigkeit Tensile strength Tensão de ruptura Rm	Dehnung Elongation Alongamento A (A50-50mm)	Einschnürung Reduction of area Coef. Estricção Z (A50-50mm)																													
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Visuelle Kontrolle Visual inspection Inspeção visual		ASTM E370 Härte Hardness Dureza 198 [HB]		ASTM A262-93a Practice E Korrosionsbeständigkeit IC Test Corrosão intercristalina Ok																														
ASTM A484 Maßkontrolle Dimensional inspection Inspeção dimensional		E 112-96e1 Korngröße Grain size Tamanho de grão 6		Wärmebehandlung Heat treatment Tratamento térmico Annealed Quenched 1050 °C																														
Verwechslungsprüfung Test of identity Teste de identificação		Makroskopische Untersuchung Macrographic test Material free from segregation defects.																																
Bemerkungen / Remarks / Observações Micrographic test: approved. Material is free of mercury. Material is free of radiation contamination. No weld repair done.																																		
Es wird bestätigt, dass dieses Material die Spezifikation zutrifft, welche de erwähnten Standards übereinstimmen. We confirm that this material meets the specification according the mentioned according the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.																																		

FR 03.02.05/1

B I L L O F L A D I N G

No: PEC 728972

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 14Sep11 at 11:35 From PFW
 Probill 876352087151
 Via FEDERAL EXPRESS
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B I L L O F L A D I N G

1) Our Order PEC-367092- 1 Your PO # 14519
 STAINLESS STEEL FLAT BAR 304-L HRAP
 .625" X 3.00" X 98.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
560832	232232	8 ' 2.0000 "	1	50

TOTAL:	Tags	PCS	LBS
	1	1	50

ADD ON TO BACK ORDER 352182 SUR-CHARGE PAID

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
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ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

SHIP VIA FEDEX P1 ACCT# 15179324-0
 TOTAL 1 BAR G.W 50 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
 ***** TEL. 800-926-2600 *****
 * WE STOCK STAINLESS STEEL *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

 ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
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B I L L O F L A D I N G

No: PEC 728972

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 14Sep11 at 11:35 From PFW
Probill 876352087151
Via FEDERAL EXPRESS
FOB CONCORD
Frt COLLECT
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

04-113727

BÖLLINGHAUS STEEL Böllinghaus Portugal Aços Especiais, SA DIN EN ISO 9001:2000 TÜV CERT No. 01 100 030458		Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1		No.: / Nr.: / Nr.: 0000051207											
		Unsere innere Verweisung / Our internal Ref / Referência 5600006719 000020		Datum / Date / Data 10.07.2007											
Normen / Standards / Normas T304/L, tolerances acc. to ASTM A484-05a, specifications acc. to latest rev.: AMS 5639 Rev. H, QQS 763 Cond A, ASTM A 276-04a, ASTM A479/A479M-04, ASME SA 479-E01, AMS 5847 Rev. H, AMS QQS 763F															
Kunde / Customer / Cliente. Roda Specialty Steel, Inc. 432 Diens Drive 60090 Wheeling IL			Endgültiger Kunde / Final Customer / Cliente Final Roda Specialty Steel 1640 New Market Ave, Building 4 07080 S.Painfield NJ												
Bestell Nr./Order Nr./ Enc.Nr. 450120			Bestell Nr./ Order Nr./ Enc.Nr. 450120.08												
Prüfgegenstand / Product / Produto AISI 304/304L FLAT 3 x 5/8"		Gewicht / Weight / Peso 2,482 lb		Bunde / Bundle / Atados 02											
Werkstoff-Nr. Material-no. Qualidade 1.4307		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9													
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, solution annealed. US DFAR 252,225-7014: MELT SOURCE: United Kingdom / MFG: Portugal.															
Chemische Analyse in % / Chemical composition in % / Análise química em %															
Schmelzen Nr. Cast nr. / Forno nr. 560832		C:	0.022	Si:	0.250	Mn:	1.830	P:	0.028	S:	0.027	Cu:	18.350	Ni:	8.120
EAF		Mo:	0.380	Co:	0.146	Cu:	0.484	N:	0.085	Ti:	0.005	W:	-	V:	-
Proben Nr. Test no. Amostra no.		ASTM E399 Korbchlagarbeit Impact Test Resistência (Charpy V)		ASTM A370 Streckgrenze Yield point Tensão limite Rp 0.2 %		Dehngrenze 1% point Limite de extensão Rp 1.0%		Zugfestigkeit Tensile strength Tensão de ruptura Rm		Dehnung Elongation Alongamento A (A50-50mm)		Einschnürung Reduction of area Coef. Enrijção Z (A50-50mm)			
		[J]		[Kgf]		[Kgf]		[Kgf]		[%]		[%]			
3010645.01.01		-		50.3		55.0		93.8		52.5		72.4			
3010645.01.02		-		50.0		54.4		93.3		52.8		72.9			
3010645.01.03		-		49.6		53.7		92.8		53.1		73.5			
Visuelle Kontrolle Visual inspection Inspeção visual		<input checked="" type="checkbox"/> OK		ASTM E370 Härte Hardness Dureza		198 [HB]		ASTM A262-93a Practice E Korrosionsbeständigkeit IC Test Corrosão Intertristalina		<input checked="" type="checkbox"/> OK		Wärmebehandlung Heat treatment Tratamento térmico Annealed Quenched 1050 °C			
ASTM A484 Maßkontrolle Dimensional inspection Inspeção dimensional		<input checked="" type="checkbox"/> OK		E 112-96e1 Korngröße Grain size Tamanho do grão		6		Werkstoffverständiger Quality Control Representative Inspeção de Qualidade 145		José Santos					
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/> OK		Makroskopische Untersuchung Macrographic test Material free from segregation defects.		<input checked="" type="checkbox"/> OK									
Bemerkungen / Remarks / Observações Micrographic test: approved. Material is free of mercury. Material is free of radiation contamination. No weld repair done.						Es wird bestätigt, dass dieses Material die Spezifikation zutreffend, welche der erwähnten Standards übereinstimmen. We confirm that this material meets the specification according to the mentioned according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.									

FR 03.02.05/1

